

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/628,275	07/29/2003	Mitsuru Hasegawa	500.42846X00	4715	
20457	7590 04/27/2006		EXAMINER		
	LI, TERRY, STOUT & K	CULBERT, ROBERTS P			
1300 NOR 1. SUITE 1800	H SEVENTEENTH STREET		ART UNIT	PAPER NUMBER	
ARLINGTO	ARLINGTON, VA 22209-3873			<u></u>	
				DATE MAILED: 04/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/628,275	HASEGAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
•	Roberts Culbert	1763			
The MAILING DATE of this communication app					
Period for Reply		a).			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 27 Fe	ebruary 2006.				
2a) This action is FINAL . 2b) ☑ This	_ 				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner					
10)⊠ The drawing(s) filed on <u>29 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
The oath of declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1O-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
	·				
Attachment(s)	о п	(DTO 440)			
Motice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da				
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/29/03, 1/13/05, 7 1/29/05 5) Notice of Informal Patent Application (PT 6) Other:					

Art Unit: 1763

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Claims 1-8 in the reply filed on 2/27/06 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 4,723,903 to Okazaki et al.

Okazaki et al. teach a stamper comprising a substrate (1, 11, 21, 31, 41) and a plurality of protrusions having different heights formed on one of the surfaces of said substrate, wherein the protrusions of larger height have a stack structure of at least two layers of at least two types of materials.

Regarding Claim 2, the protrusions of smaller height have a stack structure with a smaller number of layers than the protrusions of larger height.

Regarding Claim 3, the materials of the adjoining ones of the protrusions of larger height have different etching rates for a predetermined technique.

Regarding Claim 4, the materials of the substrate and protrusions in contact with the substrate have different etching rates.

Regarding Claim 5, portions of protrusions at the same height are made of the same type of material.

Regarding Claim 6, portions of protrusions in steps of different heights are each formed of a single material.

Art Unit: 1763

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,723,903 to Okazaki et al. in view of U.S. Patent 5,494,782 to Maenza et al.

As applied above, Okazaki teaches the method of the invention substantially as claimed, but does not expressly teach using the stamp as a master.

However, the step of using a stamp as a master is notoriously old and well known in the printing arts. For example, Maenza et al. teaches a forming a stamper by forming a film of a covering material on the surface of an original stamper, forming a second covering material on the film of first covering material having protrusions formed by removing the original stamper, and removing the film of first covering material, the stamper having a film of second covering material.

It would have been obvious to one of ordinary skill in the art at the time of invention to form a replica from the stamper of Okazaki et al. by forming a film of a covering material on the surface of an original stamper, forming a second covering material on the film of first covering material having protrusions formed by removing the original stamper, and removing the film of first covering material, the

Application/Control Number: 10/628,275

Art Unit: 1763

stamper having a film of second covering material as taught by Maenza et al. in order to provide duplicate

optical recording media in the well-known manner.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Roberts Culbert whose telephone number is (571) 272-1433. The examiner can normally

be reached on Monday-Friday (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Parviz Hassanzadeh can be reached on (571) 272-1435. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

R. Culbert

Examiner

Art Unit 1763

Parviz Hassanzadeh

Supervisory Patent Examiner

Art Unit 1763

Page 4